

Amendments to the Claims

Please cancel claims 22, 23 and 32 without prejudice. Please add new claims 39 and 40 and amend the remaining claims as shown below in the Listing of Claims.

Listing of Claims

1-18. (Cancelled)

19. (Currently amended) A high-transparency plastic material comprising:
 - a) a plastic matrix; and
 - b) a nanoscale laser-sensitive metal oxide within said plastic matrix wherein said metal oxide comprises 0.001 to 0.01 weight-percent of said plastic material;
and wherein said plastic material is laser-markable or laser-weldable.
20. (Previously presented) The plastic material of claim 19, wherein said metal oxide has a particle size of 1 to 500 nm.
21. (Previously presented) The plastic material of claim 20, wherein said particle size is 5 to 100 nm.
22. (Cancelled)
23. (Cancelled)
24. (Previously presented) The plastic material of claim 19, wherein said metal oxide is selected from the group consisting of: doped indium oxide; doped tin oxide; and doped antimony oxide.
25. (Previously presented) The plastic material of claim 24, wherein said metal oxide is indium-tin oxide or antimony-tin oxide.
26. (Previously presented) The plastic material of claim 25, wherein said metal oxide is blue indium-tin oxide.

27. (Previously presented) The plastic material of claim 19, wherein said plastic matrix comprises one or more materials selected from the group consisting of: poly(meth)acrylate; polyamide; polyurethane; polyolefins; styrene polymers and styrene copolymers; polycarbonate; silicones; polyimides; polysulfone; polyethersulfone; polyketones; polyetherketones; polyphenylensulfide; polyester; polyethylenoxide; polyurethane; polyolefins; and fluorine-containing polymers.
28. (Previously presented) The plastic material of claim 19, wherein said plastic matrix comprises polymethyl methacrylate.
29. (Previously presented) The plastic material of claim 19, wherein said plastic matrix comprises bisphenol-A-polycarbonate.
30. (Previously presented) The plastic material of claim 19, wherein said plastic matrix comprises polyamide.
31. (Currently amended) The plastic material of claim 19, said wherein said metal oxide:
 - a) has a particle size of 1 to 500 nm; and
 - b) ~~comprises 0.0001 to 0.1 weight percent of said plastic material is selected from the group consisting of: doped indium oxide; doped tin oxide; and doped antimony oxide.~~
32. (Cancelled)
33. (Currently amended) The plastic material of claim 32 31, wherein said plastic matrix comprises one or more materials selected from the group consisting of: poly(meth)acrylate; polyamide; polyurethane; polyolefins; styrene polymers and styrene copolymers; polycarbonate; silicones; polyimides; polysulfone; polyethersulfone; polyketones; polyetherketones; polyphenylensulfide; polyester; polyethylenoxide; polyurethane; polyolefins; and fluorine-containing polymers.

34. (Currently amended) The plastic material of claim 19, wherein said plastic material is in the form of a molded body, semifinished product, molding ~~compounds~~ compound, or ~~lacquers~~ lacquer and comprises a laser inscribed image.
35. (Currently amended) A method for producing a high-transparency laser-markable and/or laser-weldable plastic material comprising a plastic matrix and one or more nanoscale laser-sensitive metal oxides, wherein said metal oxides comprise 0.001-0.01 weight percent of said high-transparency laser-markable and/or laser-weldable plastic material, said method comprising mixing said nanoscale laser-sensitive metal oxides with a plastic matrix under conditions of high shear.
36. (Currently amended) The method of claim 35, wherein:
 - a) said metal oxide:
 - i) has a particle size of 1 to 500 nm;
 - ii) ~~comprises 0.0001 to 0.1 weight percent of said plastic material;~~
 - iii) ii) is selected from the group consisting of: doped indium oxide; doped tin oxide; and doped antimony oxide; and
 - b) said plastic matrix comprises one or more materials selected from the group consisting of: poly(meth)acrylate; polyamide; polyurethane; polyolefins; styrene polymers and styrene copolymers; polycarbonate; silicones; polyimides; polysulfone; polyethersulfone; polyketones; polyetherketones; polyphenylen-sulfide; polyester; polyethylenoxide; polyurethane; polyolefins; and fluorine-containing polymers.
37. (Previously presented) The method of claim 35, wherein said nanoscale laser-sensitive metal oxides are in the form of a concentrated pre-mixture with the plastic material.
38. (Currently amended) A method for welding plastic molded bodies or plastic semifinished products, wherein at least one of the parts to be joined comprises a plastic material according to claim 4 or 19 at least in the surface area, said method comprising irradiating a join face of said plastic molded bodies or plastic semifinished products with laser light to which the metal oxide contained in said plastic material is sensitive.

39. (New) The plastic material of claim 19, wherein said plastic material consists of:
 - a) a plastic matrix;
 - b) a nanoscale laser-sensitive metal oxide within said plastic matrix wherein said metal oxide comprises 0.001 to 0.01 weight-percent of said plastic material; and
 - c) optionally, one or more additional additives selected from the group consisting of: polymerization initiators, visual brighteners, antistatic agents, softeners, demolding agents, lubricants, dispersing agents, antistatic agents, fillers, reinforcing agents and impact resistance modifiers.
40. (New) The plastic material of claim 39, wherein said plastic material is in the form of a molded body, semifinished product, molding compound, or lacquer and comprises a laser inscribed image.